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## Oahu Railway and Land Co.'s TIME TABLE

OCTOBER 6, 1904.

OUTWAL

Way Stations-\*9:1 m., \*3:20 p. m. \*9:15 n. m., Stations-17:30 a. \*11:05 a. m., \*2:15 t %:25 p. m., 19:70 p. . . (11:15 p. m.

INWARD

Errive Honolulu from Kahuku, Waialum and Walanae-18 36 a. m., \*5:31 Arrive Honolulu from Ewa Mill and

Peart City-17:46 a. m., \*8:36 a. m., \*10:38 a. "., \*1:40 p. m., \*4:31 p. m., \*S:32 p. m., \*7:30 p. m. Dally.

tSunday Excepted. \$Sunday only.

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from headache, my skin was sallow, and the remedies recommended me did no good. At last I commenced using Ayer's Sursaparilla, and my improvement began almost from the first dose. It relieved the almost from the dirst case. It releves the distress about my liver, caused my food to digest well, circle my headache, improved my complexion, and restored my appetite. These unlocked for but grateful results were accomplished by only two and a half bottles of Ayer's Sarsaparilla,"—Mus. Lydia M. Tarisox, Alboom, Pa. There are many imitation

food distressed me, I suffered much

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THE CHANGEABLE MAN. "Mr. Vane says he won't see you," "When did you ask him?" inquired Mr. Borroughs.

"Why, only a minute ago, of course" "Weil, ask him again, won't you? He may have changed his mind since

THOSE GIRLS. "So you have really broken your ngagement with Jack?"

I have, indeed. 'And do you hate him, dear?" "Every bone in his body. I shall never speak to him again if I live to be thousand years old.

"You mean that?" "I do, and I shall tell him so the next time I see him."

(Continued from Page Five).

scientist is made for the general public as follows:

The greatest trouble occurred along the backbone of the peninsula which is of granite. Against this granite and overlapping it is a sandstone forma-tion; against this sandstone formation and overlapping it is the sedimentary formation. That it is sedimentary is evidenced by the fact that it contains shells, wash gravel, soupstone and serpentine. Now, the whole trouble ocon standstone. There was not the the properties. slightest difficulty between sandstone and granite. The sedimentary formstion lies between the bay and the mindstone, and evidences of the row are plainly visible across the entire range of Bald Knob Hills that dwindle o nothing, just this side of Colma-This sedimentary formation is new, as nature counts the years, and is still in process of construction. Some place down in the foundations there was a alight fault in the construction, and as the ages have piled on the weight. there came a time when the limit of tensile strength" was reached and sedimentary settled slightly on its foundation. Now, whether it did so of its own accord or was pushed there by anistone, has not been fully determined. Anyway, it was "slip fault." and who is frightened at anything so simple as that? Scientists have followed that fault, or slip, into the ocean few miles south of the Cliff House. This fault shows to be from 75 to 150 feet in width, but is not nearly so had is it reads.

What that little "slip fault" did to the pipe lines of the Spring Valley Water Company is a caution to engineers. Laminated wrought-fron pipes vere torn apart like pasteboard and wisted about in a snake-like position ying directly along the line of the fault, is damaged beyond repair. The sipe lines across the bay were put out of commission as the farther end; the San Andreas line, across Baden marsh was badly broken at the Baden trestle with a number of tess serious breaks in many parts of its length. Across San Bruno marsh 1300 feet of the Crystal Springs bug forty-four-inch vrought from main was for away and as stated, the Pilarcites main was entirely gone. The Lake Honda reservoir and Lake Merced fine were broken, leaving the city with only town-two and a half days' supply under normal conditions; but a great fire was raging and the city pipes were eaking in dozens of places.

"Don't swear at Lake Merced water" said Herman Schusster "for it saved the pipe across the patches. It re-the entire Western Addition. Early quired sixty hours' continuous work to on Wednesday morning I was informed do this. that our entire pipe-line system from our sources of supply was gone. The was safe. Within the next sixty hours Andreas line temporarily, and were sending in 5,000,000 gallons more by that line to the College Hill reservoir. Every engineer knows that when maensile capacity it is unsafe to suddealy repeat the strain, except gradu- three-eighths of an inch in diameter San Andreas line, increased at the rate done by a knife. of 500,000 gallons daily." How the pipe lines were destroyed Fine Job Printing, Star Office.

THE UNITED RAILROADS WILL CHANGE ALL THEIR LINES INTO OVER HEAD TROLLEYS.

SAN FRANCISCO May 15-As quickte as it can get its men into the field the United Railroads will start the work ofconverting all of its cable roads, whereever practicable, into over head electric roads. Millions of dollars are to be put into this and other improvecurred where sedimentary laps over ments decided upon by the owners of

Permission to erect poles and wires on Murket street, Sutter street and on all other streets where the grades do not make the operation of electric cars impossible, was granted to the company in an ordinance adopted yesterday by the Board of Supervisors. The granting of this permission means the rehabilitation of the city's transportation system with the teast possible It means that cars will be running within thirty days over cable lines which could not be reconstructed and put into operation as cable lines within

THE CURTIS READY.

SAN FRANCISCO, May 10-The bark George Curtis has completed her repairs and is now in the stream ready to make another attempt to get to Honoluiu. Her last attempt was a disastrous one, resulting in a collision which caused the death of the second mate and nearly that of the captain. besides crippling the vessel and compelling her to put back to this port in

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* and repaired proved an interesting study. Where the San Andreas line crosses the Baden trestle a slip joint had been put in a number of years ago and the Pilarcitos thirty-inch pipe line, that permitted the expansion of the pipe, permitting it to crawl six inches under heat. This slip joint had been anchored to the pipe by four lugs, each having a tensile strength of about 500. 900 pounds. These lugs, which had been tested to 2,000,000 pounds, were torn out like pusteboard. That pipe had to be repaired, and there were no from works doing business in San Francisco

A sheet of boiler iron was cut out. rubber gashet placed over the patches the beller fron bolted on and over the boiler iron were placed leaden patches On either end of the broken pipe were 10,000,000 gallons in the reservoirs in boiled from bands six inches across and an inch thick and under each band were iron lugs with a shoulder and a From hook to hook was wover a net work of No. 10 galvanized from wire, and this was woven also around

The 1300-foot break across the San Bruno marsh was the hardest to repair entire flow of 36,000,000 gallons had The forty-four-inch main had been or stopped as quickly as though the pipes a pile trestle capped. If had required had been plugged. At that moment the trop of a 10,000 pound hammer to I knew there was only sixty hours' send these pillings down half an inch. supply in the city, and that with a big but they were smashed down by the fire and our city main broken. May- shock and the pipe laid in snakelike be the Spring Valley boys did not work formation forward and back, across that day. A hurried view of the situas the broken trestle. The San Brune tion showed that the Lake Merced line Marsh is mud for seventy or eighty night be more quickly repaired, and a feet down and the position of the pipe force was concentrated there. We indicated that the shock had come maintain our own repair shops, and by from the beach and the mud did not 9 o'clock on Wednesday night just six- move so quickly as the solid formation teen hours after the break, Lake Mer- below. This is illustrated by placing a the city, and the Western Addition the paper on the end of the finger and snapping it quickly with another finger we had repaired the break in the San The paper will slip from under the coin, leaving it in its place

This 1300 feet of trestle has been temporarily repaired, and water is now pouring through the main. The terial has been strained beyond its pipe had been pulled apart, and in many instances the 100 from rivets ally. That was done in the case of the had been cut in two as sheer as though

### Major General H. C. Corbin



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Belle-My feet! wh, I invited her to my lawn fete this afternoon.

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